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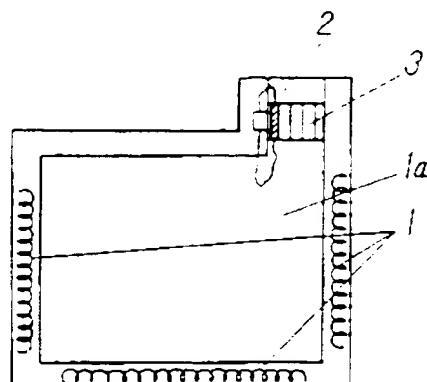
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TITLE : OVEN



ABSTRACT : PURPOSE: To save energy by providing exhaust gas purifying catalyst with a built-in temperature sensor in an exhaust line connected to the inside of oven and using specific substance as catalyst carrier and catalyst.

CONSTITUTION: An exhaust gas purifying catalyst 3 equipped with a temperature sensor is provided close to an exhaust vent of an oven with an electric heater 1 to heat up the inside 1a. A catalyst 3 consists of a honeycomb molded carrier constituted with inorganic heat-resistant material such as cordierite or the like carrying Perovskite type composite oxide such as $\text{La}_{0.9}\text{Ce}_{0.1}\text{CoO}_3$ and a solid electrolyte for sensing temperature connected to a temperature sensing circuit with lead. Oil adhered to the inside of oven is evaporated, decomposed into CO_2 and H_2O with catalyst, and senses the completing time of dry baking from lowering temperature of catalyst.

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